IN THE CLAIMS

This listing of the claims replaces all prior versions of the claims in the application.

Claims 1-2 (Canceled)

3. (Currently Amended) An isolated antibody which specifically binds to a polypeptide selected from the group consisting of:

- a) a polypeptide comprising the amino acid sequence of SEQ ID NO:1,
- b) a polypeptide comprising a naturally-occurring amino acid sequence at least 90% identical to the amino acid sequence of SEQ ID NO:1, said naturally-occurring amino acid sequence encoding a polypeptide having protease inhibitor activity, and
- an immunogenic fragment of a polypeptide comprising the amino acid sequence of SEQ ID NO:1.
- 4. (Withdrawn) A diagnostic test for a condition or disease associated with the expression of GAPIP in a biological sample, the method comprising:
 - a) combining the biological sample with an antibody of claim 3, under conditions suitable for the antibody to bind the polypeptide and form an antibody: polypeptide complex; and
 - b) detecting the complex, wherein the presence of the complex correlates with the presence of the polypeptide in the biological sample.
 - 5. (Original) The antibody of claim 3, wherein the antibody is:
 - (a) a chimeric antibody;
 - (b) a single chain antibody;
 - (c) a Fab fragment;
 - (d) a F(ab')₂ fragment; or
 - (e) a humanized antibody.
 - 6. (Original) A composition comprising an antibody of claim 3 and an acceptable excipient.

7. (Withdrawn) A method of diagnosing a condition or disease associated with the expression of GAPIP in a subject, comprising administering to said subject an effective amount of the composition of claim 6.

- 8. (Original) A composition of claim 6, wherein the antibody is labeled.
- 9. (Withdrawn) A method of diagnosing a condition or disease associated with the expression of GAPIP in a subject, comprising administering to said subject an effective amount of the composition of claim 8.
- 10. (Withdrawn) A method of preparing a polyclonal antibody with the specificity of the antibody of claim 3, the method comprising:
 - immunizing an animal with a polypeptide comprising the amino acid sequence of SEQ
 ID NO:1, or an immunogenic fragment thereof, under conditions to elicit an antibody response;
 - b) isolating antibodies from said animal; and
 - c) screening the isolated antibodies with the polypeptide, thereby identifying a polyclonal antibody which binds specifically to a polypeptide comprising the amino acid sequence of SEQ ID NO:1.
 - 11. (Previously Presented) A polyclonal antibody produced by a method of claim 10.
- 12. (Previously Presented) A composition comprising the polyclonal antibody of claim 11 and a suitable carrier.
- 13. (Withdrawn) A method of making a monoclonal antibody with the specificity of the antibody of claim 3, the method comprising:

- a) immunizing an animal with a polypeptide comprising the amino acid sequence of SEQ ID NO:1, or an immunogenic fragment thereof, under conditions to elicit an antibody response;
- b) isolating antibody producing cells from the animal;
- c) fusing the antibody producing cells with immortalized cells to form monoclonal antibody-producing hybridoma cells;
- d) culturing the hybridoma cells; and
- e) isolating from the culture monoclonal antibody which binds specifically to a polypeptide comprising the amino acid sequence of SEQ ID NO:1.
- 14. (Original) A monoclonal antibody produced by a method of claim 13.
- 15. (Previously Presented) A composition comprising the monoclonal antibody of claim 14 and a suitable carrier.
- 16. (Original) The antibody of claim 3, wherein the antibody is produced by screening a Fab expression library.
- 17. (Original) The antibody of claim 3, wherein the antibody is produced by screening a recombinant immunoglobulin library.
- 18. (Withdrawn) A method for detecting a polypeptide comprising the amino acid sequence of SEQ ID NO:1 in a sample, the method comprising:
 - a) incubating the antibody of claim 3 with a sample under conditions to allow specific binding of the antibody and the polypeptide; and
 - b) detecting specific binding, wherein specific binding indicates the presence of a polypeptide comprising the amino acid sequence of SEQ ID NO:1 in the sample.

19. (Withdrawn) A method of purifying a polypeptide comprising the amino acid sequence of SEQ ID NO:1 from a sample, the method comprising:

- a) incubating the antibody of claim 3 with a sample under conditions to allow specific binding of the antibody and the polypeptide; and
- b) separating the antibody from the sample and obtaining the purified polypeptide comprising the amino acid sequence of SEQ ID NO:1.
- 20. (Previously Presented) An isolated antibody of claim 3, which specifically binds to an immunogenic fragment having at least 15 contiguous amino acid residues of a polypeptide comprising the amino acid sequence of SEQ ID NO:1.
- 21. (Previously Presented) An isolated antibody of claim 3, which specifically binds to a polypeptide comprising the amino acid sequence of SEQ ID NO:1.